Device for testing parachutes. Shor. rats. predl. vnedr.

等的 4. 我们就是我们的一个人,我们就是一个人,我们就是我们的一个人,我们就是我们的一个人,不是一个人。

v proisv. no.219-10 '61. (MIRA 14:7)

1. Trest "Dahershinskruda". rudoupravleniye imeni Il'icha.

 Trest *Dahershinskruda*, rudoupravleniye imeni Il¹icha. (Mine hoisting)

VOLOKHOV, A.A.; KOBYSH, V.I.; HOVIKOVA, E.G.

Method for recording respiration by means of a thermistor. Thur.
vys.nerv.deiat. 6 no.2;342-345 Nr-Ap '56. (NIRA 9:8)

1. Laboratoriys sravnitel'nogo ontogenesa nervnoy sistemy Instituta
normal'noy i patologicheskoy fisiologic ADM SSSR.
(RESPIRATION, function tests
spirometry of laboratory animals during experimentation,
appar. A method)
(LABORATORY ANIMALS
appar. A method for spirometry during experimentation)

KOBYSH, V.I., NIKITINA, G.M.

Registration of conditioned and unconditioned motor reactions in animals during ontogenesis with the aid of a carbon recorder. Zhur. vys.nerv.deiat. 11 no.3:537-560 Hy-Je 161. (HIRA 14:7)

,这种我们的的对抗,他们们的对抗,我们就是一个人,我们就是一个人,我们们的一个人,我们们们们的一个人,我们们的一个人,我们们是一个人,他们们就是一个人,他们就会

1. Laboratory of Comparative Ontogenesis of the Nervous System, Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Medical Sciences, Moscow. (COMDITIONED RESPONSE) (NERVOUS SYSTEM)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

S/048/61/025/004/042/048 B117/B209

24.3500

AUTHOR:

Kobyshev, G. I.

TITLE:

Luminescence of crystals surface-activated by uranyl ions

PERIODICAL:

Isvestiya Akademii nauk SSSR. Seriya fisicheskaya,

v. 25, no. 4, 1961, 542-544

TEXT: The present paper has been read at the 9th Conference on Luminescence (Crystal Phosphore). The author wanted to clarify the luminescence spectrum resulting when uranyl cations which are in coordinate bond with water molecules are applied to the surface of a crystal (e.g., magnesium oxide). Unlike ordinary crystal phosphors, the activator in this case is on the surface or in the surface layer, and thus is accessible to external influences. The luminescence of the uranyl cation has been studied both on the surface of inorganic polymers (Ref. 5: G. I. Kobyshev, Dokl. AN SSSR, 127, 373 (1959)) having no crystal structure, and on crystals. A report is given on experiments with magnesium oxide. Magnesium oxide powder (or gel) was annealed in air for 5-6 hr at temperatures of 600 ÷ 700°C.

Card 1/4

Luminescence of crystals ...

S/048/61/025/004/042/048 B117/B209

The activator was added from a uranyl salt solution (10-3 mole.1-1). anion did not cause any major change. The sample was treated at a pressure of 10-5 mm Hg and was simultaneously heated to 170 + 2000C. This treatment provided the removal of capillary-condensed, adsorbed, and coordinately bound water. A weak luminescence with a continuous spectrum was observed in the range of 16,000 - 18,000 cm , emitted by the uranyl cation that has lost the coordinately bound water. Only on the surface of crystalline bodies, a "quasi-line" spectrum can be observed beside the continuous spectrum; it differs greatly from the spectrum of the uranyl salt, and is due to the luminescence of crystalline formations on the surface of magnesium oxide. The introduction of the activator does not necessitate any thermal treatment of the phosphor, which is a proof of the surface character of orystal formation. The "lines" of the quasi-line spectrum fit into the series formula: $V = 17650 - 700 \text{ y}_1 + 370 \text{ y}_2$. This spectrum remains unchanged when steam or a gas (H20, HH3) is introduced. The continuous spectrum, however, changes into a band spectrum with frequency spacing of about 770 cm⁻¹ in the range of

Card 2/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

Luminescence of orystals ...

S/048/61/025/004/042/048 B117/B209

17,000 ÷ 21,000 cm⁻¹. The changes effected by gases are completely reversible. It is a conspicuous characteristic that the quasi-line spectrum with its clearly marked vibrational structure conserves its discrete nature even when the temperature is raised to room temperature. Increased temperature causes a decrease in luminescent intensity, a redistribution of luminescent intensities among the "lines," and the formation of a yet shorter-wave component. The vibrational structure which is very clear in the quasi-line spectrum up to 20°C, and the absence of deformation frequencies indicates a weak interaction between the excited electron state and the vibrational energy of the lattice. This is probably due to the formation of two-dimensional crystals on the surface which thus complete the structure of the magnesium oxide crystal. A considerable compensation of U - O bonds (uranyl- and coordinate bonds) takes place in the two-dimensional crystal concerned. Perhaps this may be explained by a breaking of the double bonds and the formation of one-and-a-half-valent bonds. Thus, the uranyl ion plays the role of an activator of luminescence in magnesium oxide on the one hand, while on the other, the luminescence which is characteristic of the state of coordination of uranyl can be observed only in consequence of a coordination

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Luminescence of orystals ...

S/048/61/025/004/042/048 B117/B209

of the uranyl cation with oxygen atoms of the base. In this case, the luminescence of the uranyl ion has to be considered an intermediate phenomenon between luminescence of a crystal phosphor and molecular luminescence. Pinally, the author points out the fact that the examined quasi-line spectrum resembles in its structure the luminescence spectra of the uranyl cation introduced into calcium oxide (Ref. 3: J. Ewles, R. Lee, J. Electrochem. Soc., 100, 392 (1953)) and into sodium fluoride (Ref. 2: W. A. Runciman, J. phys. chem., 17, 645 (1956); Proc. Roy. Soc., 237, 39 (1956); Brit. J. Appl. Phys. Suppl., 4, 78 (1955)).

A. N. Terenin is thanked for advice. [Abstracter's note: Essentially 3 non-Soviet-bloc.]

Card 4/4

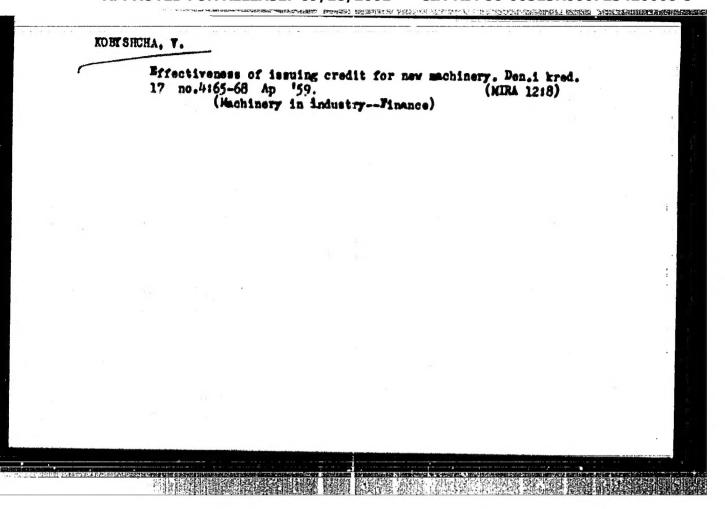
TRET 'IAROVA, Tevgeniya Mikolayevna, prof.; KONTSHEVA, Mina Vladimirovna;
DMITRITEVA, M.M., red.; ZAKRAHOVA, A.I., tekhn. red.

[Chronic nonspecific diseases of the lungs in children and their climatological treatment] Ehronicheskie nespecific@eskie sabolavanita legkith u detei i ikh klimaticheskoe lechenie. Moskva, Nedgis, 1960. 200 p.

(MIRA 14:12)

(LUNGS—DISEASES) (CLIMATOLOGY, MEDICAL)

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

中国大学中国主席的

Miminate excessive expenses in maintaining agency-owned houses. Zhil.-kom.khos. 10 no.4:9-10 '60. (NIRA 13:6) 1. Hamestitel' glavnogo bukhgaltera Primorskogo sovnarkhosa. (Vladivostok-Apartment houses-Hanagement)

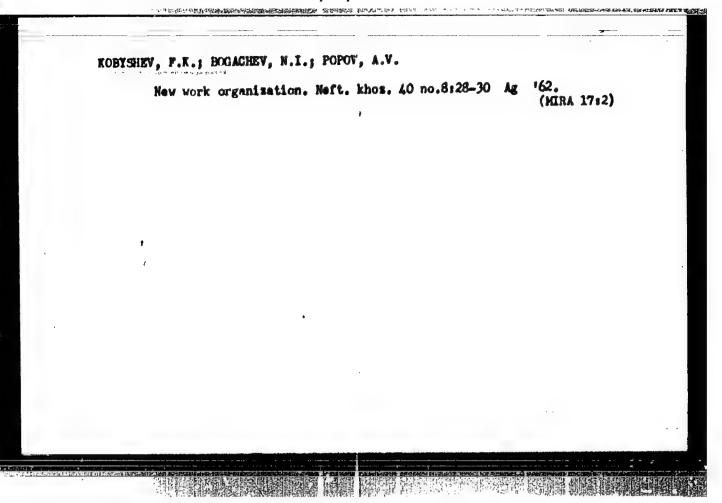
C KORT SHCHA, V.

Transition to a seven-hour workley and the mechanisation of administrative work. Fin. SSSR 21 no.6122-25 Je 160.

(MIRA 1316)

1. Zamestitel' glavnogo bukhgaltera Primorekogo sovnarkhosa.

(Hours of labor) (Maritime Territory-Machine accounting)



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* 474 DES - TABLE SERBITANTES FRANCISCO PRODUCTIONS DESCRIPTION CONTRACTOR DE COMP

. AUTHORS: 7 (2)-12 -2-29/63 Kolyonev, G. I., Schlaffer, D. F. TITLE: The Lawinteence S setre of Counting tion Trans A Mitrate Compounds Gottry lyminestro: told 'ourdin tring p'h amedicenig uraniloitreta) PERIODICAL: Dollady Atude ii rau! 898a, 1/2 , Yel. to . No J. Jo. 330 + 532 (4858) ABSWARTS The exists so of a sto street is int so as a setting a first is not a appointe property of the organal aper ten of as anylnitrates. It is multer but coase makes of a come to sail prenome unon, i.e. of the correlation of addition solema of oleraladdend) ittended to the rangel inc. In the except poer the luda Because of the delight to a useryl mits to and of some of its coordination compared with various of a local devestinted in order to check the indice on or solden along the properties of the edied achandes wenter in introduce spectrum. Microcrystalline gowders pro seed from the continuation compounds of uranyl nitrate (the che fact for the of these regions) were used in the december of the I of the completion. The Case 1/4

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West Laminescence Sugetime of Conflination Unsuplement 3 % 25-10 (-2-2), 63

luminiscs, ce see tra word all taken at a ten existe of TT %. The luminfocence spectrum or Paited by the deal standed salt concluted of a wide band in the range of from 7565 to 5105 % with the maximum at 5455 R. Above the back round of this land little pronounced mania a could be found. All if the couplex compounds one serated here (which contain electric conor selecules) exhibit a britht lumintercace at 90°K. Some of these also In infince of room to year twee. They show the local conce by entrant through a board typical of the unangl calts, which incomparise oscillation spectran. A dispressions so le of there spectra. The frequency of oscillation is sainly determined by the urangl ion and it in little describert upon the nature of the addenduate An enception is represented by the amnomiate of the unamyl nitrate, as its luming cence apectras does not show any stracture. From the data found in this investigation the following proceeds: The coordination of electron denor notecules with t a uranyl ion together with the formation of sufficiently atable bindings is the accessary condition for the occurrence of the atmediate typical of the luminfluence aportram of arms, I

Card 2/4

The Luminiscence Spectra of Coordination Uranyl Nitrate Compounds

507/20-120-2-29/63

compounds. A displacement of the maximum of intensity of luminfecence towards smaller frequencies is found in the luminacence spectra of the complex compounds in question (with the exception of UN.206H5NO2), if the donor properties of the

added molecules become more pronounced. This displacement follows certain rules. There are 1 figure, 1 table, and 14 references, 7 of which are Soviet.

ASSOCIATION: Fizicheskiy institut i Khimicheskiy institut Leningradskogo gosudarstvennogo universiteta im.A.A.Zhdanova (Institute of Physics and Institute of Chemistry of the Leningrad State University imeni A.A.Zhdanov)

PRESENTED:

March 18, 1958, by A.H. Merenin, Member, Academy of Sciences,

USSR

Card 3/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723420008-5

The Lumingscence Spectra of Goordination Uranyl
Nitrate Compounds

SUBMITTED: March 4, 1958

1. Franyl mitrate—Desirements 2. Uranyl mitrate—Spectra
3. Uranyl mitrate—Theory

Card 4/4

5(4) 80Y/20-127-2-38/70 Kobyshev. G. AUTHORS Influence of the Surface of the Adsorbent on the Luminescence TIPLE: Spectrum of the Uranyl Ion Doklady Akademii nauk SiSR, 1959, Vol 127, Er 2, pp 373-376 PERIODICAL: (USSR) There are mentions in publications concerning the great sensitivity of luminescence apeotra of the uranyl ion to alterations ABSTRACT: in its surrounding medium (Refs 5, 6). To investigate this influence, an analysis was made of the change in the luminescence spectra of the unanyl ion adsorbed on adsorbents. The spectra were excited with the lamp PRK-4 ($\lambda = 3650$ %) and were photographed by means of a spectrograph or recorded photoelectrically by means of spectrograph ISP-51 with attachment FEP-1. Adsorption took place from aqueous solutions of uranyl salts (nitrate, sulfate, potassium uranyl sulfate). To remove the anions, the samples were washed out; the uranyl adsorbed did not enter solution. When washing out with salt solutions it was possible to observe ion exchange reactions. After 5 - 6 h of degassing by heating up to 200°, the spectra were observed at 90 or 77°K. Figure 1 shows the luminescence spectra of the Card 1/3

Influence of the Surface of the Adsorbent on the Luminescence Spectrum of the Uranyl Ion.

30**7**/20-127-2-38/70

hydrated ion (VO2.2H2O) ++ on silica gel, microporous glass, alumino gel, alumo silica gel, magnesium oxide, and chromatographic paper. The microporous glass prepared according to the method by Grebenshchikov and O. S. Molchanova was made available by the latter, and the author expresses her his gratitude. The absorption band maxima of the adsorbed uranyl do not agree with any band maximum of the uranyl nitrate solutions. The form of the spectrum depends on the type of adsorbent. Its surface therefore changes the state of the uranyl ion. With long . protracted degassing, the spectrum loses its structure by a change in its degree of hydration. This change is reversible. By the action of steam, the original spectrum appears again (Fig 2). NO acts in a similar way, but with an ensuing structural change of the spectrum. Thus the adsorbed uranyl ion is capable of coordinating different molecules. In the adsorbed state, a decrease in the full-symmetrical vibration frequency is obversable with all adsorbents applied, as compared to its values in crystals and solutions. The present investigation

Card 2/3

Influence of the Surface of the Adsorbent on the Luminescence Spectrum of the Uranyl Ion

SOV/20-127-2-38/70

was carried out under the supervision of Academician

A. H. Terenin. The author thanks him for supplying the subject and for valuable advice given. There are 2 figures and

16 references, 7 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

March 24, 1959, by A. M. Terenin, Academician PRESENTED:

March 24, 1959 SUBMITTED:

Card 3/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

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8/048/60/024/006/026/030/XX B013/B067

Z4 3 6 C

Kobyshev, G. I.

TITLE:

Effect of the Surface of an Adsorbent on the Luminescence

PERIODICAL:

Izvestiya Akademii nauk SS3R. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 752-755

TEXT: The author studied the luminescence spectrum with a vibrational structure of the coordinated uranyl ion. The uranyl ion served as an indicator of the changes which it underwent during absorption and under the effect of foreign molecules. Microporous quartsoid glass produced according to I. V. Grebenshchikov (Ref. 6), silica gel, alumo gel, alumo silica gel, magnesium oxide gel, etc. were studied as adsorbents. Figs. 1 and 2 show photoelectrically recorded luminescence spectra of an uranyl ion hydrated at 770K in adsorbed state on microporous glass as well as on magnesium oxide. This indicates that the spectrum depends on the type of crystalline state can be observed. The schematical representation of Card 1/3

Effect of the Surface of an Adsorbent on the B/048/60/024/006/026/030/XX Luminescence of the Uranyl Ion B013/B067

spectra shown in Fig. 3 serves to compare the positions of the peaks in the luminescence spectra of drystal hydrates, hydroxides, and uranyl glass. The peculiarity of the luminescence spectrum of the hydrated uranyl ion and the experimental data indicate that the uranyl ion on the surface is in an adsorbed state, and that no salt crystallites are added. Experiments in vacuo showed that the surface of the adsorbents dehydrates the adsorbed uranyl ion (UO2.2H2O)²⁺. As a result of dehydration, the intensity of luminescence is strongly reduced. The structural luminescence spectrum appears in the coordination of the ion with H2O and MO2 molecules under the formation of a complex surface compound. In the adsorbed state, the uranyl ion is not coordinated with the surface atoms. Adsorption takes place as a result of a substitution of the proton of the surface hydroxyl group by the uranyl ion. It was found that the dampening of luminescence by J- and NO2 ions is totally reversible (Fig. 4) and can be expressed by the linear formula of Stern - Foltmer. If the luminescence intensity is reduced, the duration of the excited state of the uranyl ion becomes shorter (Fig. 5). The present paper was read at the Eighth Conference

Card 2/3

Effect of the Surface of an Adsorbent on the S/048/60/024/006/026/030/XX Luminescence of the Uranyl Ion 8013/8067

on Luminescence (Molecular Luminescence and Luminescence Analysis) which took place in Minsk from October 19 to 24, 1959. There are 5 figures and 12 references: 7 Soviet.

ASSOCIATION: Laboratoriya fotosinteza Mauchno-issledovatel'akogo fizicheskogo instituta Leningraiskogo gos universiteta im.

A. A. Zhdanova (Laboratory of Photosynthesis of the Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

Card 3/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

L 17782-63 EVP(j)/EPF(c)/EVT(s)/EVE AND PO-1/Pro- RM/AW/MAY.

ACCESSION NR: AP3005850 9/0051/63/015/002/0253/0261

AUTHOR: Lyalin, G.N.; Koby*shev, G.I.

TITLE: Luminescence of and intraccaplex energy transfer in uranyl phthalocyanine

SOURCE: Optika i spektroskoplys, v.15, no.2, 1963, 253-261

TOPIC TAGS: luminescence, energy transfer, uranyl ion, pathalocyanine

ABSTRACT: The purposes of the work were to investigate the luminescence of the complex compound of uranyl with phthalocyanine in the expectation that there would be observed the spectrum characteristic of metal-containing phthalocyanines and possibly the luminescence of the aranyl cation itself, and to obtain evidence for intracomplex energy transfer. The uranyl-phthalocyanine complex was synthesized by V.F. Borodkin in the Ivanov Chemical Engineering Institute by a procedure analogous to that employed by I.M.Kogsa (Khimiya krasiteley /Dyo chemistry/ p.657, M.,1956) for synthesizing metallo-phthalocyanines. That the complex actually was formed was checked by infrared spectroscopy. The luminescence spectra in the red and near infrared (500 to 1000 mm) regions were recorded photoelectrically by means of a set-up assembled about an ISP-51 glass optics spectrograph (dispersion at 700 mm)

Card 1/82

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

L 17782-63

ACCESSION NR: AP3005850

about 5 mu/mm). The spectra were obtained for the UO2Phc (Phc = the phthalocyanine skeleton) suspended in vaseline oil and in solutions in diexane and nonane. These were compared with the spectra of mata .- free H2Phc and MetPhc. The results plearly indicate complex formation. Study o' the fine structure of the luminesconce spectra by the Shpol'skiy (frozen solution) method indicates that the uranyi ion searcaly perturbs the energy levels of the conjugated band system of the exaporphyrin ring of 1802Phc. The coordinating uranyl ton ourtle outer in the emission process. The excitation wavelength dependence of the matter of the first and cates the existence of at least two types of luminescence centers; one active in electronic transitions from an excited singlet state to the ground state of the complex; the other is responsible for luminescence incident to transfer of energy from the uranyl cation to the system of x-conjugated bonds of the azaporphyrin ring. A number of the absorption and luminoscence spectra are reproduced in the figures. The wavenumbers of the luminescence lines are listed in tables. take this opportunity to thank Academician A.N. Terenin for suggesting the topic and guidance in the work. We are also grateful to Docent V.F.Borodkin of the Lyanov Chemical Engineering Institute for synthesis of the complex and to laboratory technician D.S.By+strov for recording the infrared absorption spectra." Orig.art has: 10 figures and 4 tables, Card 2/2

ACCESSION NR: AP4009478

8/0051/63/015/006/0637/0636

· 中国中国大学中国 李建学的产生的国际的政治的 医维维曼 据**图 经已经的股份的 计图 经**通过 (1995年)

AUTHOR: Koby+shev, G.I.; Lyslin, G.N.; Terenin, A.N.

TITLE: Manifestation of a hydrogen bond in the luminescence spectrum of magnesium phthalocyanine with uranyl mitrate hemahydrate

SOURCE: Optika i spektroskopiya, v.18, no.6, 1963, 837-838

TOPIC TAGS: hydrogen bond, protonization, magnesium phthalocyanine, uranyl mitrate, magnesium phthalocyanine luminescence

ABSTRACT: In an earlier investigation (G. I. Kobyshev, G. N. Lyslin and A.W. Terenin, DAN SSSR,148,1294,1963) in which photoluminescence was employed to study excitation energy transfer from the coordinated UCC; ion to magnesium phthalocyanine in ethyl alcohol solutions there was established the following unique effect: at 290°K there is present in the luminescence spectrum of Mg phthalocyanine the usual narrow peak of this compound at 673 mu together with a number of secondary longer wavelength peaks, but upon freezingof the solution (cooling to 77°K) this peak virtually disappears and a new peak at 703 mu appears in fac sensitized luminescence spectrum. It was inferred that the new hand was due to a protonized form of the pigment, Ac-

Card 1/3

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8/020/63/148/005/012/029 B102/B186

AUTHORS:

Lyalin, G. N., Kobyshev, G. I.

TITLE:

Luminescence of the uranyl-phthalocyanin complex

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1053 - 1056

TEXT: The uranyl-phthalocyanin complex investigated was synthesized by V. F. Borodkin in the Ivanovskiy khimiko-tekhnologicheskiy institut (Ivanovo Institute of Chemical Technology). The IR absorption spectrum of the complex was characterized by the 1055, 1068, and 1530 cm⁻¹ bands which are observed in phthalocyanins containing metal atoms, and the 1310, 1325, and 1006 cm⁻¹ bands similar to those observed in free phthalocyanin. The 920 cm⁻¹ frequency observed is attributed to stretching vibrations of the UO++ ion. All bands differ in intensity from those observed in metal-free phthalocyanin. The electron absorption and luminescence spectra also differ for uranyl phthalocyanin and metal-free phthalocyanin, both dissolved in dioxane. The uranyl complex is characterized by the 661, 632, and 598 mm (290 K) absorp-

Luminescence of the ...

3/020/63/148/005/012/029 B102/B186

tion and 676, 710, and 748 m (770K) liminescence bands. The integral intensity of the luminescence spectrum decreases at 77 K and increased with T. The vibrational structure of the spectrum was studied by Shpol'skiy's method (UFN, 77, 321, 1962) at 77 K on UO2-phthalocyanin samples dissolved in honane, and compared with the results obtained for metal-free H2-phthalocyanin in equal concentration $(10^{-5} M)$. The fact that the luminescence in UO,-phthalocyanin proved to depend partly on the exciting frequency indicates the presence of at least two different luminescence centers. The series of peaks with 676, 709, and 747 mplis a result of the luminescence of electronic excitation on the complex as a whole. The series with the green peak (692 mm at 290 K) arises on energy transfer from the UO++ to the system of R-conjugate bonds of the azaporphyrin ring of the UO2-phthalocyanin molecula. There are 3 figures and 3 tables.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet is. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

1962, by A. N. Terenin, Academician

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5" AID tir. 967-5 15 May

ENERGY TRANSFER FROM URANYL CATION TO PHTHA LOCYANIN IN SOLUTION AND IN ADSORBED STATE (USSR)

Kobyshev, G. I., G. N. Lyalin, and A. N. Terenin. IN: Akademiya nauk SSSR. Doklady, v. 148, no. 6, 21 Feb 1963, 1294-1297.

S/020/63/148/006/010/023

A spectrophotometric study has been conducted of excitation energy trainsfer from uranyl cations to phthalocyanin at various temperatures. Solutions of H₂ phthalocyanin in dioxane and Mg phthalocyanin in ethanol with 10⁻⁵ to 10⁻⁵ M concentrations were used with 10⁻⁵ to 10⁻⁶ M uranyl nitrate or uranyl acetate additive. The addition of uranyl salts produced, with proper illumination, a tento twentyfold increase in the intensity of luminescence of both phthalocyanin solutions; however, the addition of magnesium or vanadyl salts produced no effect, eliminating ionic effects on higher levels of the pigment as a possible explanation. Along

Card 1/2

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723420008-5

AID Nr. 967-5 15 May

EHERGY TRANSFER [Cont'd]

5/020/63/148/006/010/023

with the increased luminescence in the presence of uranyl cations, an anomalous temperature dependence of luminescence was observed which was most pronounced in the case of H_2 phthalocyanin with uranyl acetate in dioxane. The dependence of spectra on wavelength of the excitation light was studied, as well as energy transfer between uranyl ions and phthalocyanin, adsorbed on magnesium oxide.

[BB]

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

BDS AP3000 526

3/2020/63/190/202/0607/0410

FUTHOR: Lyalin, G. N.; Kobyschev, C. I.; Terenin, A. N.

46

TITLE: Quenching of luminescence of carotenoid admorbants

SOURCE: AN SSSR. Doklady, v. 150, no. 2, 1963, 407-410,

TOPIC TAGS: luminescence quenching, carotenoid adsorbants, lability; Beta-

ABSTRACT: The adsorbants and solutions of Beta-carotine and the structurally related lutein which enter into the composition of the pigments of a photosynthesizing plant were studied. The lability degree of addition of 0 sub 2 to molecules of these pigments was explained in detail by the luminescence learning method. "We wish to express our thanks to Professor D. I. Sapozhnikov for submitting Beta-carotine and lutein specimens and to V. I. Shirokov for carrying out the fluorometric measurements." Orig. art. has: 3 figures and

ASSOCIATION: Nauchno-issledovatel*skiy fizicheskiy institut Leningradskogo gosudarotvennogo universiteta im. A. A. Zhdenova (Scientific Research Institute Cord 1/2)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

KOBYSHEV, G.I.; LYALIN, G.N.; TERENIN, A.N., akademik

Photoreaction of Mg-phthalocyanin with a coordinated uranyl cation, Dokl. AN SSSR 153 no.4:865-868 D 163.

(MIRA 17:1)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.

L 26087-66 ENT(1) SCTB ACC NRI AP6015085 SOURCE CODE: UR/0020/66/168/001/0068/0074 AUTHOR: Kobyshev, G. I.; Lyalin, G. N.; Terenin, A. N. (Academician) ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy TITLE: Luminescence of chlorophyll excited by a ruby laser SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 68-71 TOPIC TAGS: luminescence, luminescence spectrum, luminescent material, laser application, lawer effect, chlorophyll ABSTRACT: Experiments were performed to detect radiation emission during transition of a molecule from the second excited singlet level to the ground level (\$2000 \$30). A high-power ruby laser (J. L. Hall et al., Phys. Rev. Lett., 11, 364 (1963); W. L. Peticolas, et al., Phys. Rev. Lett., 10, 43, (1963); J. B. Birks et al., Phys. Lett., 18, 127 (1965) was used to excite solution of chlorophyll "a" (5 x 10-3 M), methylchlorophyllide (5 x 10⁻³ M), magnetium phthalocyanine (10⁻⁶ M) in ethyl chlorophylline (5 x 10⁻³ M) in methyl alcohol, and phthalocyanine without metal (10-4 M) in dioxane. The emission from a "Razdan" K-4-2 laser (pulse energy of 1 joule, with a pulse repetition frequency of 2 cps) was focused on the object by a lens through a KS-17 light filter. The luminescence of the object was separated by means of a ZMR-3 monochromator (linear dispersion in the investigated range was Card 1/2 UDC: 535,373,2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

ACC NR. AP6015085 20 my/mm). The photon counting method was used for recording the luminescence spectrum. A blue-green luminescence in the path of the laser beam was clearly this luminescence at 290K displayed a 430—510 mu band with a maximum at 480 mu spectrum. The observed band can be attributed to the expected radiative transition from the S₂ level to the S₂ ground level. Three processes are suggested as possible small-energy photons: 1) addition of two photons of a powerful pulse owing to an singlet state during its existence (2 x 10⁻⁹ sec); and 3) accumulation, caused by a triplet-triplet annihilation. Orig. art. has: 2 figures. SUB CODE: 20/ SUBM DATE: 157eb66/ ORIG REF: O06/ OTH REF: O26/ ATD FRESS: 4254

L 04760-67 EWP(j)/EWT(1)/EWT(m) ACC NRI AP6025971 IJP(c) RM SOURCE CODE: UR/0051/66/021/001/0128/0130 AUTHOR: Kobyshev, G. I.; Lyalin, G. W.; Terenin, A. N. ORG: none TITLE: Intermolecular energy transfer from the excited triplet level SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 128-130 TOPIC TAGS: molecular interaction, molecular property, molecular structure, molecular spectrum, light excitation, excitation energy, excitation spectrum, excited state, ABSTRACT: The possibility of non-redisting intermolecular energy transfer from the excited triplet level of a donor molecule is experimentally confirmed. A glasslike solution of fluoresceine and naphthalene in boric acid was used. Due to the long life of the triplet state and its high quantum output it was possible to excite a high percentage of fluoresceine into its triplet state and to retard its deactivation by maintaining it in a solid state form. An output from a mercury arc in the 436 µ region was used to first achieve transition into the singlet state. The second transition into the upper triplet level was due to illumination from an incandescent source through a filter. The luminescence spectrum from naphthalene was detected by means of a photomultiplier preceded by a monochromator to isolate the UV rediation of interest Card 1/2 UDC: 535.373.2 kh Card 2/2

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一个中国中央基础和企图的程序。在"影影影响"等等,他们影响影响,是在18年代,在19年代,他们的影响的"对方",是由19年代,他们是19年代,他们是19年代,他们们

SOY/112-58-2-3168

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 214 (USSR) AUTHOR: Aul', F. F., and Kobyshev-Kus'min, G. M.

TITLE: The Experimental Application of Semiconductor Amplifiers in Electric Delay Lines (Opyt ispol'sovaniya poluprovodnikovykh usiliteley v traktakh elektricheskikh vremennykh zadershek)

PERIODICAL: Tr. Vses. Gos. n.-i. in-ta radioveshchat. priyema i akustiki, 1956, Nr 7, pp 161-181

ABSTRACT: A description is presented of 4 experimentally-tested transistoramplifier circuits designed with Soviet P1 and P2 triodes connected in various combinations (with a common emitter, collector, and base): 2-stage amplifiers with PIA triodes (common base) and P2A (common collector), one designed with two P2A triodes (common emitter), and one 3-stage with two P1A (common collector and common emitter) and P2A (common collector). All of these amplifiers are intended to compensate attenuation in a 600-ohm delay line and have a voltage amplification (K_n) of 1.2 to 1.35. The amplifier

Card 1/2

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经经济的自己的产品,但是在自己的企业,但是自己的企业的企业的政治的政治的企业,并不是**的现在,但是是由于企业的企业的企业。在**

The Experimental Application of Semiconductor Amplifiers in Electric Delay Lines consumes 156-340 mw at 26 v. A simplified circuit for each amplifier is presented along with data on its components and experimental curves of R_{gg} , K_{H} , and K, as a function of frequency. In addition, grapho-analytical methods for calculating every scheme are presented. The use of such amplifiers is recommended for the correction of the frequency response of a delay line and also for the correction of the attenuation inserted by passive elements of a channel.

I.F.N.

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

9(4)

Translation from: Referativnyy shurnal. Elektrotekhnika, 1959, Nr 5, p 200 (USSR)

AUTHOR: Kobyshev-Kuz'min, G. M., and Shuvalov, Ye. V.

TITLE: Noise Properties of Soviet Junction Transistors

PERIODICAL: Tr. Vses. n.-i. in-t radioveshchat. priyema i akust., 1957,

ABSTRACT: Results of an experimental investigation of the noise factor F of Soviet junction transistors in a grounded-emitter circuit are reported. The integral value of F was determined for two bands: 20-10,000 cps and 300-10,000 cps. The noise factor was calculated from the formula

$$F = U_{ah}^2/(4kTR_o \Delta fK_E^2)$$
,

where Ush is the noise voltage at the transistorized amplifier output, Ro is the input resistor. Af is the effective pass band that can be determined by a numerical integration, Kg is the voltage gain measured by a sine-wave

Card 1/3

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SOV/112-59-5-9833

Noise Properties of Soviet Junction Transistors

oscillator. A spectrum analyzer was used for the spectral analysis of F. The dependence of F on the frequency, R_0 , emitter current I_e , and the collector voltage U_k was investigated. Investigation of three samples of the low-noise P1D transistor showed that the semiconductor noise extends up to 700-1,000 cps; at frequencies over 3,000 cps, the noise factor F grows because K_E decreases. An expression for F in a grounded-emitter circuit (accounting for thermal and schrot effects) was derived from an analysis of T-type equivalent circuit containing three noise generators. By differentiating the F expression with respect to R_0 , a formula for the optimum value of the internal source resistance R_0 opt can be found. Experimental curves for 16 samples of P1 and P2 transistors are presented; a blunt minimum of F with $R_0 = 100$ -600 ohms was obtained. A deviation of the experimental minimum from the calculated one (200 - 1,000 ohms) is due to the semiconductor noise. With a different emitter current, the calculated noise factor has a minimum at $I_0 = 0.5$ ma.

Card 2/3

SOV/112-59-5-9833

Noise Properties of Soviet Junction Transistors

Experimental curves $F(I_e)$ for three P1D transistors are presented; they clearly show the minimum F at I_e = 0.5 ma. Curves $F(U_k)$ for three samples of P1D are presented. With $(U_R) < 10$ -15 v, F is almost independent of U_k ; however, F increases sharply if U_k grows further. Expressions for F and R_o opt for the three fundamental circuits are submitted. A comparison showed that for a minimum F, with $K_E - K_E$ max, the common-emitter circuit should be used.

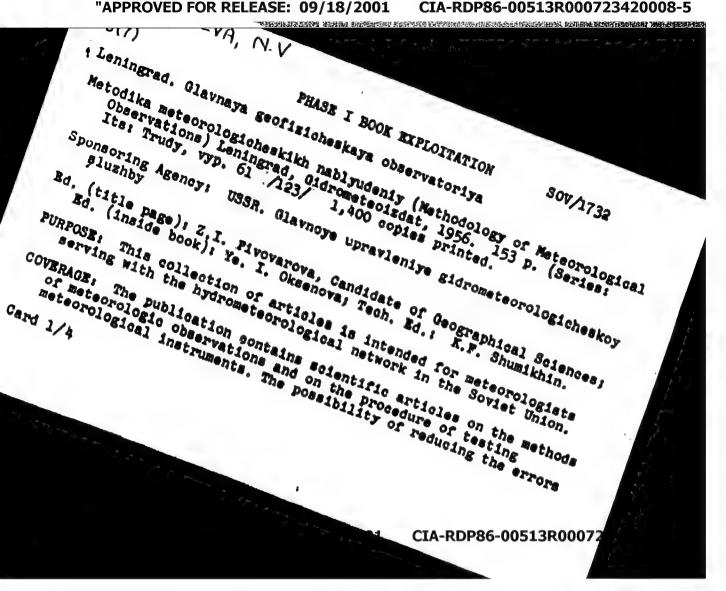
N.V.B.

Card 3/3

"Tethods of Determining Daw and Its Geographic Distribution."

Sond Geog Set, Main Jeophysical Chnervatory Immai A. I. Voyeykov:
Tain Administration of the Hydrometeorological Service, Council of Hinisters USSR, Leningrad, 1955. (KL, He II, Har 55)

50: Sum. Ho. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

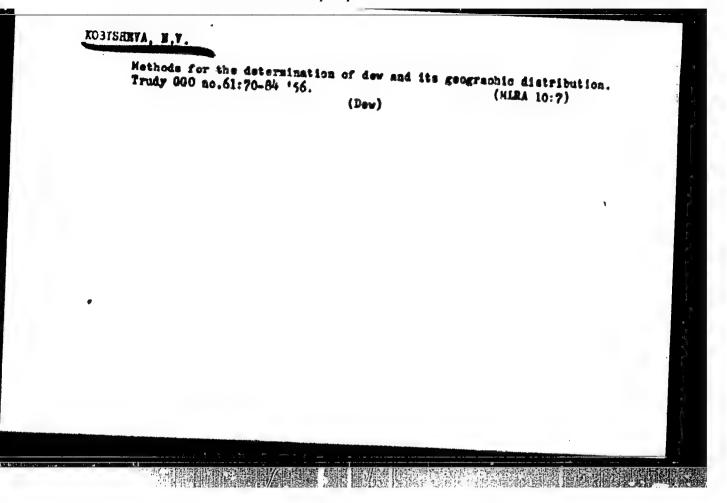


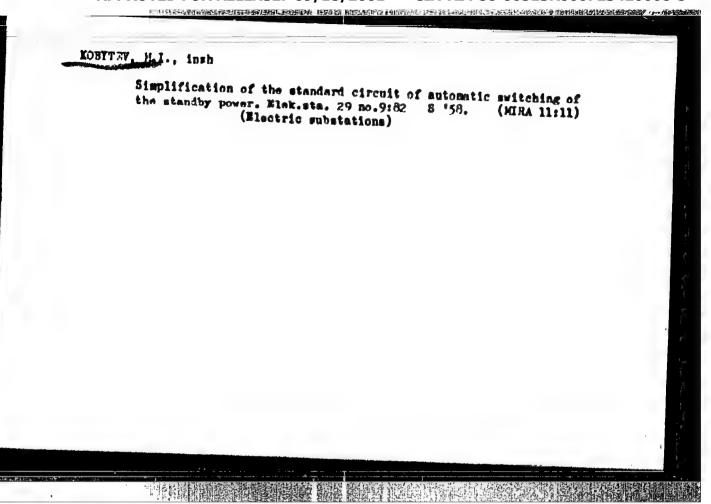
Methodology of Meteorological Observations	SOV/1732	
and thus securing more accurate results in obserby mathematical computations and graphs. The necessary portable instrument that would be capable of inschool to be capable of instrument is emphasized. The articles are accurate, diagrams, tables and references.	ed for a universal	,
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MM/jmr 5-21-59		
Card 4/4		

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KOBYTHY, S.I.; SUKHOY, V.I., otv.red.; MORGUMOV, Yu.K., red.;

[Melons of Turkmenistan; from the experience of the Chardshou Agricultural Experiment Station of the Turkmen Agricultural Research Institute] Byni Turkmenistans; is opyta raboty Chardshouskoi sel*skokhosiaistvennoi opytnoi stantsii Turkmenskogo nauchnomisaledovatel*skogo instituta zemledeliis. Ashkhabad, M-vo sel*,khos.Turkmenskoi SSR, 1959, 18 p.

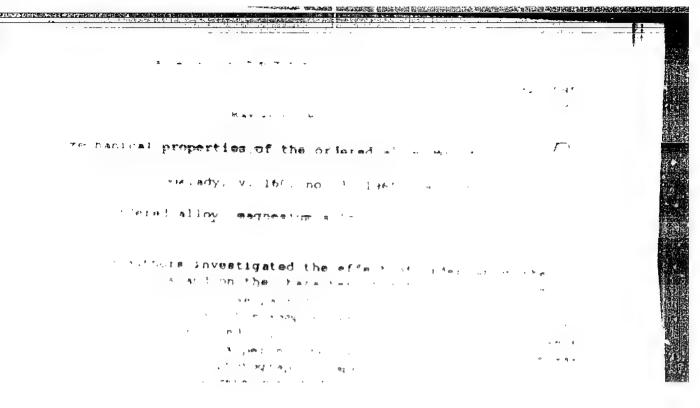
(Turkmenistan--Melons)

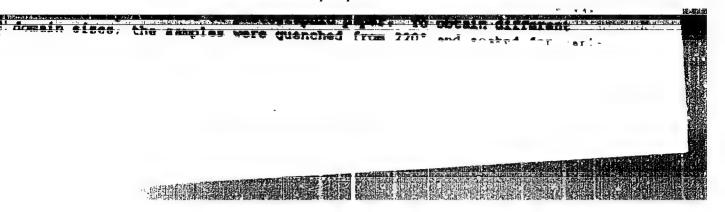
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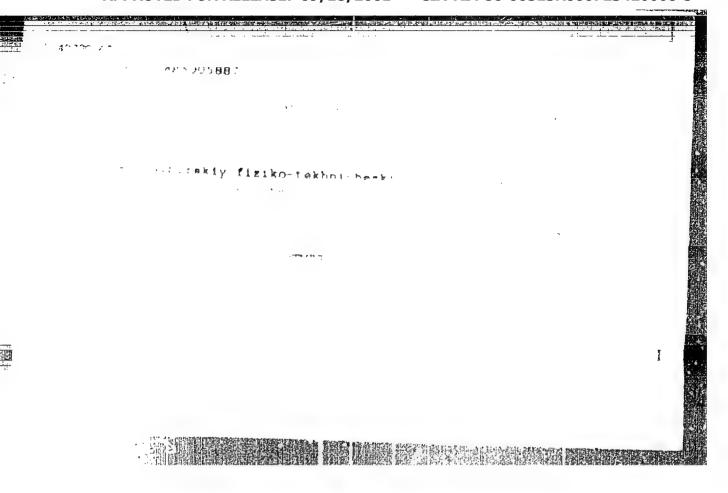
的感染的,更可以使见到这种"这是一种的知识"就是这些"这个"这个"这个"的"我们就是不是我们的是这些"我们的我们的我们的我们的,我们就是我们的我们的,我们就是这 "我们是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我

CIA-RDP86-00513R000723420008-5"

(HIRA 14:3)







KOBYZEV, A. S.

"Etiology, Pathogenesis, Clinical Course, and Therapy of Acute Leukoses." (Dissertation for Degree of Doctor of Medical Sciences) Voronesh State Hedical Inst, Voronesh, 1955

SO: M-1036 28 Mar 56

これまではないはない。 次の回じの事業、ないないのはのはなる事をを出る。 なんはななな こまれる カンカルカ コニュー・

EOBYZEV, A.S. dotsent

Treatment of acute leucosis. Bov.med. 20 no.5:35-38 My '56.

(MLRA 9:9)

1. Is kafedry propedevtiki vnutrennikh bolesney Voroneshskogo meditsinskogo instituta

(LHUKHMIA, therapy,

(Rus))

KOBYZEV, A.S., doktor med.nauk

Role of estrogenic hormones in the pathogenesis of leukenic process [with summary in English]. Problemok. i gorm. 3 no.5: 114-117 8-0 57. (MIRA 11:1)

1. Is kafedry propedevtiki bnutrennikh bolesney (sav. - doktor meditsinskikh nauk A.S.Kobysev) Voroneshskogo meditsinskogo instituts.

(MSTROGHES, injurious effects, leukemia frequence in animals & men treated with (Rus)) (IMURMIA, etiology and pathogenesis, estrogens as factor in frequency of leukemia in animals & men (Rus))

Clinical variations of acute leukesis. Sov.med. 21 no.8:73-78 Ag '57. (NIRA 10:12) 1. Is kafedry gospital noy terapii (sav. - prof. B.S. Mesterow) i kafedry propedevtiki terapii (sav. - doktor meditainskikh nauk A.S. Kobysev) Voronashskogo meditainskogo instituta. (LEUKEMIA acute, classif. (Eus))

U-1 USSR/General Problems of Pathology 4 Comparative Oncology

Ref Zhur - Bioli, No. 18, 1958, 849/3 Abs Jour

Author

1 Kobysev. A. S.

Inst

no institute is given

Mtle

: l'aterials on the Inter-relationship of Tubercu-

losis and Laukosis

Orig Pub : Terapovt. Arkhiv. 1957. Vol. 29, No. 6, 43-53

Abstract : Of 76 patients in acute leukosis (AL) seen by the author, seven were found to have active tuberoulcsis; in the majority of these the AL had emerged on a background of execerbations of the tuberculous process. The cases described in the literature of leukamoid, agranulocytic reactions in tuberculous patients, like the development of the leukemic process itself, are connected by the author with changes in the reactivity of a sensitized organism, the sensitivity being due to distrubences in the regulatory influence of the CNS, and also with disturbences in the metabolic, endocrine, and biochemical processes in the organism of patients

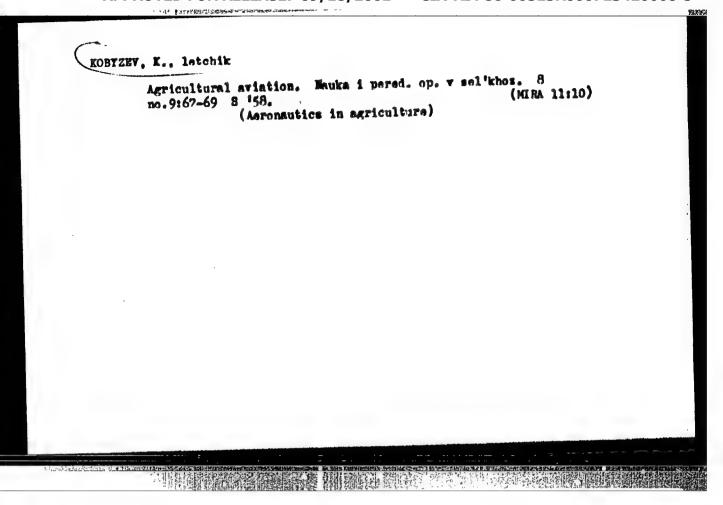
Card 1/2

Chair of Hospital Therapy Voroneyh Med Inol.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5" Pathogenesis and morphology of erythroleucomyelosis. Elin.med. 35
[i.e.34] no.1 Supplement:25 Ja '57. (MIRA 11:2)

1. Is kafedry gospital'noy terapii (sav. - prof. V.S.Nesterov)
Voroneshakogo meditsinakogo instituta.
(BIOOD--DIERASES)

KOBTEN, K., letchik A book about a flier and inventor. "The Falcon" E.S.Bobrov. Reviewed by K.Kobysev. Takh.mol.23 no.11:33 N°55. (MLRA 8:12) (Hesterov, Petr Bikolaevich,) (Bobrov, H.S.)



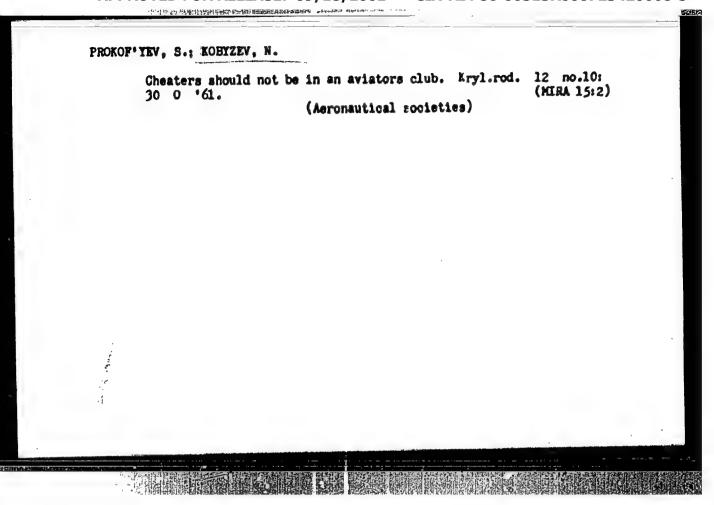
Men there is no seasonal prevalence in flights. Eryl.rod. 11 no.6123-24 Je 160. (MIRA 13:7)

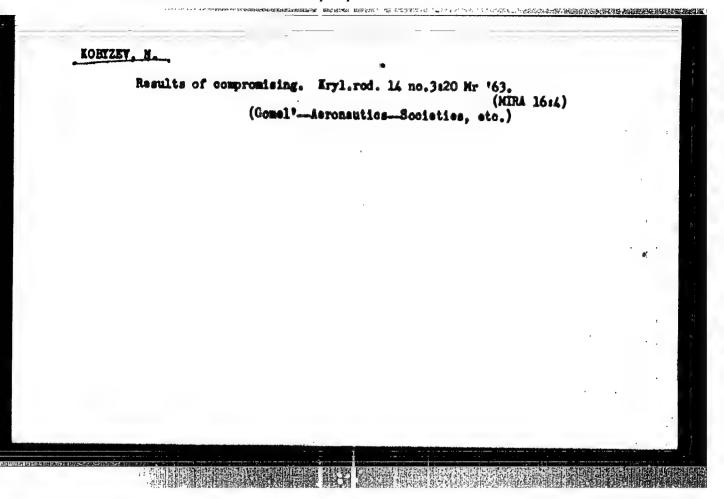
(Yaroslavl--Flight training)

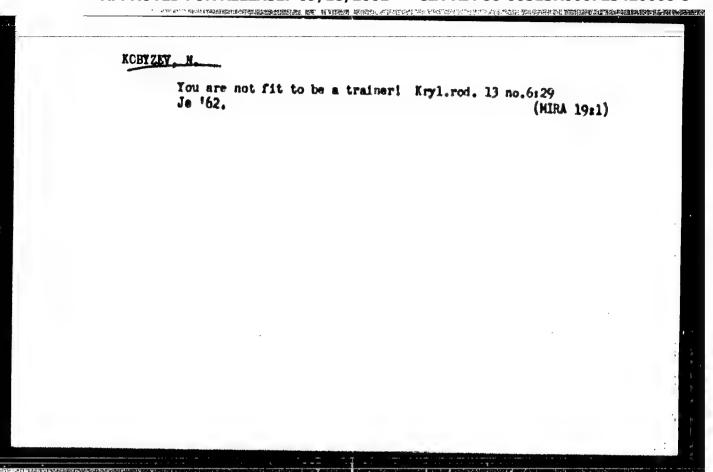
IOHAT'IMV, S.; KOBIZEV, N.

Eyevash specialists in the Tashkent Asronautics Club. Kryl.rod.
(MIRA 14:7)

(Tashkent—Asronautics)







507-107-58-9-3/38

AUTHOR:

Kobysev , P., Instructor in the TsK, VLESK

TITLE:

Restless hearts (Bespokoynyye serdtsa)

PERIODICAL:

Radio, 1958, Nr 9, pp 3 - 4 and 2 - 3 of centerfold (USSR)

ABSTRACT:

The author praises the achievements of the Komsomol organization and deals in particular with the contributions its members have made in the sphere of amateur radio. There

are 8 photos.

1. Radio operators--Performance 2. Radio operators--USSR

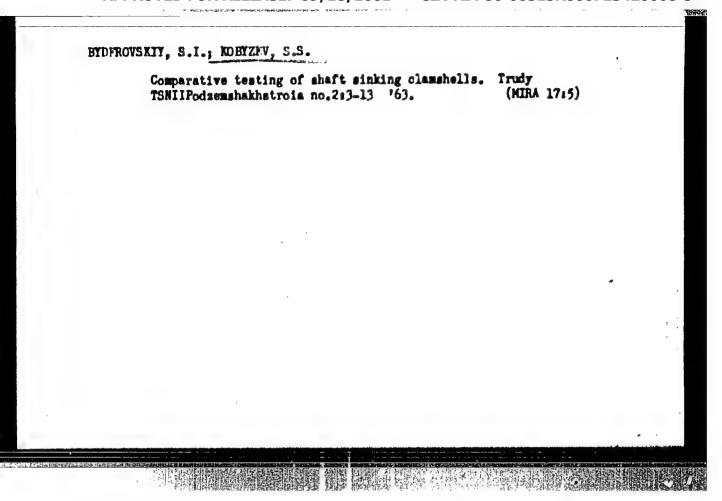
Card 1/1

Weing the "Kraiderman" leader in sinking an inclined shaft. Shakht, stroi. 7 no.7:31 J1 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

KORNILOV, Yu.N., insh.; KOBYZZV, S.S., inzh., KOLIVA, M.G., insh.

Mining equipment abroad. Ugol' Ukr. 7 no.10:53-54 O '63, (MIRA 17:4)



PETUKHOV, N.N.; KOBYZEV, S.S.

Analysis of the existing and elaboration of now systems and means of transportation in high-speed horizontal mining. Trudy TSNIIPodzem-shakhtstroia no.3:101-120 '64. (MIRA 18:9)

Korchemnyi, M. I. Advanced methods and steps in the work of Kuznetsk sheet-rolling mill operators Moskva, Gos. mauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metalTS340,K59

TS340,K59

25(1)

SOV/125-59-12-8/18

AUTHOR:

Kobyzev, V. K.

TITLE:

Surfacing of Grooved Rolls According to Pattern

PERIODICAL:

Avtomaticheskaya swarka, 1959, Nr 12, pp 58-64 (USSR)

ABSTRACT:

Detailed engineering information is given on a new method and equipment used at the Kuxnetsk Metallurgical Combine (or KMK). The two resurfacing installations at KMK consist each of a Craven roll lathe, an "A-384" welder designed by the Institut elektrosvarki im. Ye. O. Patona (Institute of Electric Welding imeni Ye. O. Paton), measuring equipment, welding converter and transformer, an induction heater, and gas nossles for preheating. The device automatically moving the "A-384" welder one step forward after every revolution of the roll in the lathe, the roll remaining in a horizontal position, was designed and made at KMK, and eliminated the initial difficulty of resetting the welder in the resurfacing process after every full revolution of the roll. An installation with the tracer

Card 1/3

SOV/125-59-12-8/18

Surfacing of Grooved Rolls According to Pattern

for automatic resetting is shown in photographs. It is mentioned that Craven lathes were used because of the lack of special lathes Reference 17 permitting the tilting of the roll for surfacing vertical and steep side surfaces in the passes. Surfacing is completed in one single layer, and the layer is of a uniform thickness over the entire pass surface. The surface is smooth, and sometimes no machining is required after surfacing. The wear resistance of these resurfaced rolls is 5.1 times higher than before resurfacing. More than 200 rolls of 500 to 1200 mm diameter were resurfaced in 1957 and 1958. The surfacing material is "PP-3Kh2V8" powder wire. The mentioned special resetting device with tracer was granted an Author's Certificate, Hr 112836. Engineers R. A. Braunshteyn, and V. I. Merslyakov, and Technician S. R. Rakipov took part in the development of the resurfacing installation. There are 6 photographs, 1 diagram and 2 Soviet references.

Card 2/3

SOV/125-59-12-8/18

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Surfacing of Grooved Rolls According to Pattern

ASSOCIATION: Kusnetskiy metallurgicheskiy kombinat (Kusnetsk Metallurgical Combine).

SUBMITTED: July 11, 1959.

Card 3/3

CIA-RDP86-00513R000723420008-5" APPROVED FOR RELEASE: 09/18/2001

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

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77460

SOV/133-60-1-21/30

AUTHOR:

Kobyzev, V. K. (Engineer)

TITLE:

Information and Current Events. Hard Facing of Roll

Passes Using Master Shape Profile Templets

PERIODICAL:

Stal', 1960, Nr 1, pp 68-70 (USSR)

ABSTRACT:

This is a brief description of the technique used by the Kuznetsk Metallurgical Combine (Kuznetskiy metallurgiches-kiy kombinat -- KMK) for producing the built-up (by welding) shape passes on rolling mill rolls. The Kuznetsk Combine (in rolls-turning shops of the railbeam and medium-shape-rolling Department) has two electric

welding building-up installations consisting of rolls-turning lathes with welding machines of A-354 type, controlling-

measuring devices, converters (converting a-c current into d-c current), transformers, inductors, or gas burners for heating the rolls, before hard-facing, to 280-320°C. The steel rolls, as well as the flat parts of the equipment, are hard-faced by drawn or powder wire

Card 1/4

Information and Current Events. Hard Facing of Roll Passes Using Master Shape Profile Templets

77460 **SOV**/133-60-1-21/30

PP-3Kh2V8 under the AN-20 flux using the A-384 apparatus designed by the Institute of Electric Welding imeni Ye. O. Paton (Institut elektrosvarki imeni Ye. O. Patona). The method developed by the Institute is suitable for hard-facing the horizontal or slightly slanting portions of rolls shapes. Therefore, the Kuznetsk Combine conducted an investigation of technology of hard-facing the roll passes with shamply slanting walls (keeping the axis of the roll in horizontal position). R. A. Braunshteyn, L. N. Soroko, and V. I. Merzlyakov (Engineers), S. R. Rakipov (Technician), and A. I. Markevich, V. I. Shakhmatov, and V. P. Konhukhov (Welders) participated in the work. A mathematical connection between the various technological factors was established. The derived formulas were used for determination of the method of hard-facing (at a given thickness and hardness of hard-faced layer) and also for calculation of thickness of metal of the original rolls which should be taken off when machining the roll passes prior to

Card 2/4

Information and Current Events. Hard Facing of Roll Passes Using Master Shape Profile Templets

77460 **SOV**/133-60-1-21/30

hard-facing. During 1957-1958, over 200 rolls were hard-faced at the Kuznetsk Metallurgical Combine (KMK). The average life of rolls increased 5.1 times. Since 1957 the hard-facing (using the PP-2Kh2V8 wire) is applied to rolls of the thooming mill. The 900 mill works exclusively on hard-faced rolls. The hard-faced layer has practically no wear. However, the above technology had some disadvantages, and so a special arrangement (Author's Certificate Nr 112836) was developed for automatic electric are hard-facing of shape roll passes and rollers of the shape-straightening machine, using the shape profile templets. The principle of this arrangement is based on differentiation of the speed of movement of welding head in horizontal and vertical directions in accordance with the curvature of the templets. The rates of hardfacing are directed depending on the conditions of roll's work and the developed parameters. The results of 1959 testing of the device for automatic hard-facing of shape profile, using

Card 3/4

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

Information and Current Events. Hard Facing of Roll Passes Using Master Shape Profile Templets

77460 **SOV**/133-60-1-21/30

a master templet, showed: (a) the entirely satisfactory quality of hard-faced surface of roll passes, without any defects; (b) good surface finish of hard-faced surface, which at times is so satisfactory that the rolls are put into the stands without any machining; (c) the design sufficiently simple and convenient regarding its setup and use; (d) the reliable work of the device under production conditions, which justifies its recommendation of hard-facing rolling mill rolls and other bodies of revolution of simple and complex profile. There are 3 figures; and 2 Soviet references.

ASSOCIATION:

Kuznetsk Metallurgical Combine (KMK)

Card 4/4

8/148/60/000/008/003/018 A161/A029

AUTHORS:

Chelyshev, N.A.; Kobyzev. V.K.; Plekhanov, N.G.; Bosdanova, N.G.;

Yampol'skiy, A.M.

TITL3:

Investigation of Metal Deformation During Rolling on a "750" Mill

With the Use of Radioactive Isotopes

计图片通信 医阿里斯氏征

PERIODICAL:

Izvestiya vysahikh uchebnykh zavedeniy. - Chernaya metallurgiya,

1960, No. 8, pp. 48 - 58

TEXT: The investigation was carried out with the use of S³⁵ isotope added to a 7-ton ingot of 50 f (500) killed steel during rolling on the "750" two-stand two-high billet mill of the Kusnetskiy metallurgicheskiy kombinat (Kusnetsk Metallurgical Combine). The mill has box passes in the first stand (Fig. 1) and a rhomb-square pass system in the second (Fig. 2). Three distinct sones were produced in metal by adding the isotope after the formation of a crystallised crust in the ingot mold, and again 10 min later after the formation of another solid layer. The first isotope addition had an activity of 950 mCu, the second the double activity, so as to obtain three zones: a non-radioactive outer layer and two inner sones of different radioactivity. The observed deformation in height

Card 1/5

8/148/60/000/008/003/018 A161/A029

Investigation of Metal Deformation During Rolling on a "750" Hill With the Use of Radioactive Isotopes

and width was very different in separate layers in both stands. The observations are discussed in detail and illustrated by figures and tables. Autoradiograms show the deformation after each of the 15 passes in the billet mill. The effect of the ratio hmean/1 (mean height of the deformation area to grip are length) [Abstractor's note: Subscript mean is a translation from the Russian gr (sredniy)] and of the grip angle on the deformation was determined (noticed previously by A.I. Tselikov in Reference 2). The following conclusions were drawn: 1) The isotope method makes possible the observation of deformation without disturbing the process. 2) The deformation is distributed very non-uniformly in height and width in box passes as well as in the rhomb-square system. 3) The height deformation variations in separate metal zones in separate passes depend on changes of hmean/1 and grip angle. At high hmean/1 high deformation takes place in the outer zone and low deformation in the central zone at all grip angles; the deformation gradually evens out in all zones with reducing the hmean/1 ratio, and at a hmean/1 ratio lower than 1.7 the center is deformed more than the outer layer. An increasing grip angle at constant hmean/1 ratio raises the deformation in the outer layers, and hence the deeper metal layers are worked better with

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S/148/60/000/008/003/018 A161/A029

Investigation of Metal Deformation During Rolling on a "750" Mill With the Use of Radioactive Isotopes

smaller grip angle. 4) The local non-uniformity of deformation is considerable, particularly in the first half of the rolling process. This causes separated layers under the billet surface, particularly if the metal has a low plasticity. The magnitude of local deformation non-uniformity depends also on the h_{mean}/l ratio and the grip angle; when they increase, the deformation non-uniformity increases, and the detrimental effect of large grip angles is the stronger the higher is the h_{mean}/l ratio; 5) In high-deformation areas, changes of the free-spreading index Th are determined mainly by changes of the h_{mean}/l ratio. In passes with unrestricted widening, the width deformation also changes with the h_{mean}/l ratio and the grip angle, and positive as well as negative deformation is possible. 6) The pass system of the "750" mill must be changed. The following persons took part in the investigation: G.A. Sakharov (deceased), P.G. Marinin and I.V. Manchevskiy. There are 6 figures, 3 tables and 5 Soviet references.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute)

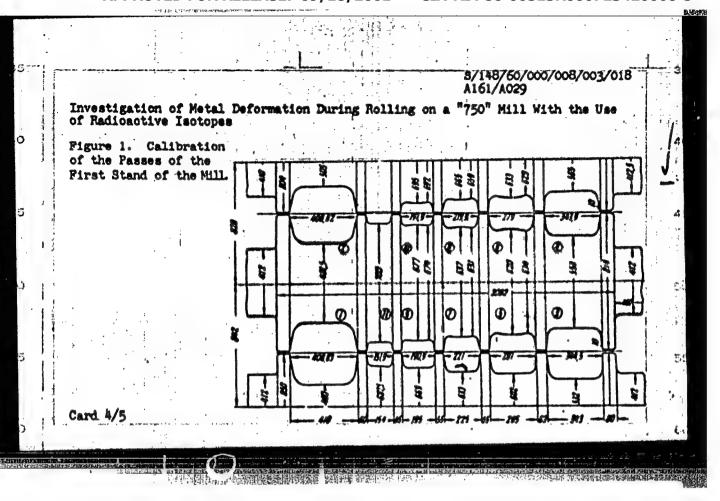
SUBMITTED: November 30, 1959

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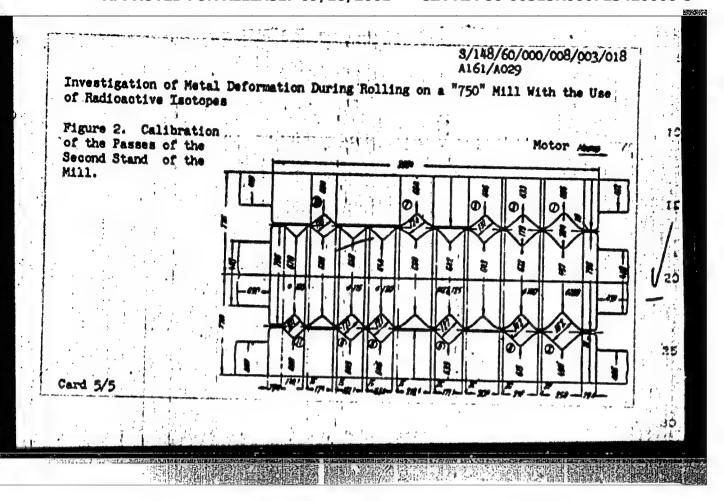
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Mays to save metal. Metallurg 7 no.4:26-27 Ap '62. (MIRA 15:3) 1. Glavmyy prokatchik Kusmetskogo metallurgicheskogo kombinata (for Kravchenko). 2. Machal'nik prokatnoy laboratorii Kusmetskogo metallurgicheskogo kombinata (for Kobysev). (Novokusmetsk—Rolling (Metalwork))

KOBYZEY, V.K.; RYAZANOV, D.G.

Thickness of the layer deposited on the grooves of rolling mill rolls following a master cam. Avtom. svar. 16 no.11:82-85 H '63. (MIRA 17:1)

1. Kusnetskiy metallurgicheskiy kombinat.

3/0133/64/000/001/0050/0052

ACCESSION NR: AP4013549

AUTHORS: Kobywzev, V. K.; Yershov, V. N.; Kuznetsov, A. P.; Mazurik, P. N.; Ryazanov, D. G.; Fiskes, E. Ya.

TITLE: Rolling two-layer sheets with the basic layer made of low-elloy steel

SOURCE: Stal', no. 1, 1964, 50-52

TOPIC TAGS: rolling, plating, low alloy steel, steel, 16GS low alloy steel, carbon steel, OKhl3 stainless steel, Khl8N1OT stainless steel, St.3 steel, stainless steel, corrosion, steel mechanical properties, & steel, 15K steel, 2CK steel, regenerative furance, continuous furnace

ABSTHACT: This work was carried out in order to study the surface quality and the mechanical properties of two-layer steel sheets. The samples were a basic sheet made of low-alloy steel (16GS) plated with stainless steels OKhl3 or Khl&MlOT. The procedure followed was developed by the KPK (Kuznetsk Hetallurgical Combine). One part of the samples was held at 12600 for 1.25 hours, at 13200 for 0.75 hours, and at 13100 for 1.5 hours. Temperature at the end of rolling was 1170-11800, and rolling was completed either with or without edging. In the former case the plate

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ACCESSION NR: AP4013549

metal was ruptured in some cases; in the latter case the quality of the metal surface was much higher, and no peeling of the plate layer was observed. The remaining samples were heated in a continuous furnace to 1310-13300 for 4.5 hours. Temperature at the end of rolling was 1000-1010C. All the samples plated with Temperature at the end of rolling was 1000-1010. All the samples plated with steel Khl3klOT underwent thermal treatment at 900-930C after rolling, while samples plated with steel OKhl3 were held at 660C for lh-18 hours. The results obtained were satisfactory. They are presented graphically in Figs. 1 and 2 on the Enclosures. "I. L. Vaynahteyn, M. H. Bazhenev, A. V. Yakubson, and G. S. Bublik participated in this work." Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Kusnetskiy metallurgicheskiy kombinat (Kusnetsk Metallurgical Combine)

SUBMITTED: 00

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ENCL: 02

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NO REF SOV: 003

OTHER: 000

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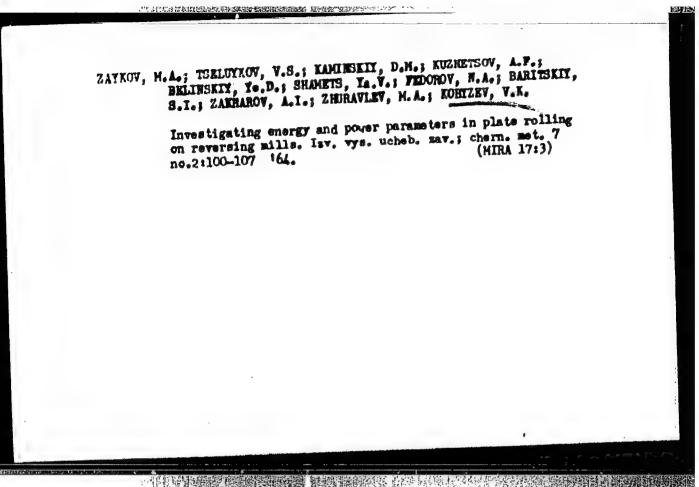
APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5"

8/0133/64/000/003/0245/0246 ACCESSION NR AP4019480 AUTHORS: Kobysev, V. K.; Dubrovin, A. K.; Peretyst'ko, V. H.; Laskaronskiy, B. K. TITLE: Heating and rolling ingots of stainless steels E1171 and E1432 SOURCE: Stal', no. 3, 1964, 245-246 TOPIC TAGS: stainless steel, heat treatment, rolling effect, roll pressure, heat resistant steel, chromium nickel steel, steel E1171, steel E1432 ABSTRACT: Rolling of chromium-nickel soid-resistant and heat-resistant steels EI171 (Kh17H13M2T) and EI432 (Kh17H13M3T) was successfully attempted after a single heating at the Kuznetsk Metallurgical Combine. The work was done to improve the former method which called for two heatings and light pressure rolls, and which often produced large tears and numerous hair cracks in the metal. In the present experiments metal was malleablised at 1240-12600 for 6 hours. This allowed increasing the size reduction to 25-55 mm and completing the rolling process in 23 passes. The terminal temperature was above 11000 and was within the range of maximum steel plasticity. The surface quality was found to improve with the increase of the terminal temperature (see Fig. 1 on the Enclosure). The total heating time was reduced from 16 hr 45 min to 12 hr 15 min; the number of passes Card 1/3

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ACCESSION BR: AP4019480 was dropped from 31-33 to 21-23; and the am from 43.5% to 35.0%. Orig. art. hast 2 fig	ount of defective products was diminished
was dropped from 31-37 Orig. art. hast 2 fig	pures and) vanies.
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KOBYZEV, V.K., insh.; ZAKHARENKO, N.I., insh.; LASKARONSKIY, E.N., insh.; OSCKIN, Ye.A., insh.; USOL'TSEV, B.N., insh.

Effect of the diameter of rolls with a grooved surface on the size and distribution of torque during metal rolling on a blooming mill. Stal* 24 no.10:899-901 0 '64. (MIRA 17:12)

1. Kusnetskiy metallurgicheskiy kombinat.

CHELYSHEV, N.A.; KOBYZEV, V.K.; BOGDANOVA, N.G.; DUBROVIN, A.K.; KACHURIN, D.S.

Investigating metal deformation on a blooming mill with the help of radioactive isotopes. Isv. vys. ucheb. sav.; chern. met. 8 no.41 96-101 165. (MIRA 18:4)

1. Sibirskiy metallurgicheskiy institut i Kusnetskiy metallurgicheskiy kombinat.

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420008-5

KOPYZEV, V.K., insh.

New method of fluting and surface hardening of rolling mill rolls. Stal* 25 no.2:137-139 F *65. (MIRA 18:3)

1. Kusnetskiy metallurgicheskiy kombinat.

CHELYSHEV, H.A.; KOBYZEV, Y.K.; BOGDAYOVA, N.G.; DUBROVIN, A.K.; KACHURIN, D.S.

Radioactive isotope study of metal deformation in blooming mill rolling. Isv. vys. ucheb. sav.; chern. met. 7 no.12:65-72 164 (MIRA 18:1)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

KCBYCZV 1 Vahag insh.; DYSTROV, A.V, insh.

Hard facing head with a tracer carriage. Svar. proizv. 12:31-33
9 '63.

1. Kuznetskiy metallurgicheskiy kombinat.

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PLEKHANOV, P.S.; COLOVAMENKO, S.A.; KOHIZKY, Y.K.; BULAT, S.I.; MIL'TO, Yu.R.; RYAZAMOV, D.G.; BARANOVSKAYA, M.I.

Mastering the rolling of bimetal shapes for the agricultural machinery industry. Stal' 25 no.10:922-927 0 '65. (MIRA 18:11)

1. Kusnetskiy metallurgicheskiy kombinat i TSentral'nyy nauchnoissledovatel'skiy institut chernoy metallurgii im. I.P. Bardina.

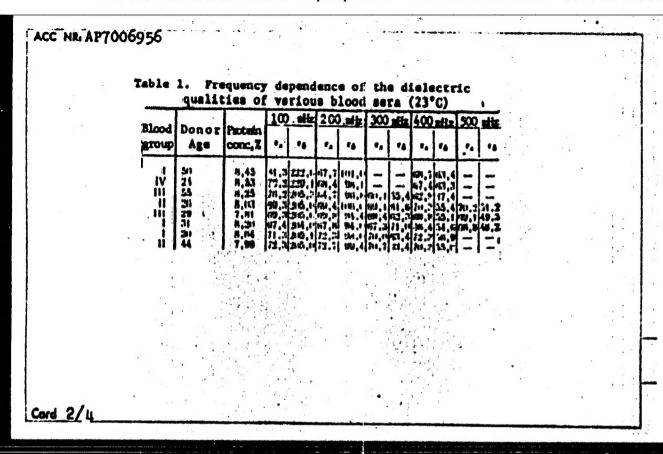
KACHURIN, D.S., imsh.; KOBYZEY, V.K., insh.; DUBROVIN, A.K., insh.; USOL'TEKY, B.N., insh.

Effect of fluting the roll surfaces on the quality of the rolled metal. Stal* 25 no.12:1103-1105 D *65. (MIRA 18:12)

1. Kusnetskiy metallurgicheskiy kombinat.

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. P.; Ge	nkina, Ye.	8.							
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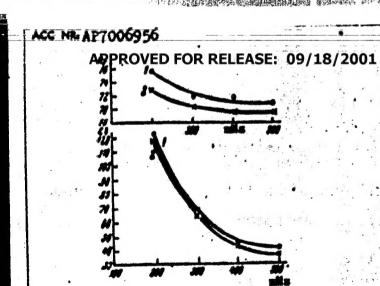


Fig. 1. Frequency dependence of the dielectric qualities (sx and ss) of normal blood serum before () and after (2) controlled heating to 63°G for 15 min (2.5% protein; 23°G).

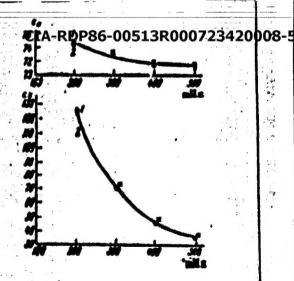


Fig. 2. Frequency dependence of the dielectric qualities of blood from a patient with myeleleukosis before (1) and after (2) heating to 60°C for 15 min (2.5% protein; 23°C).

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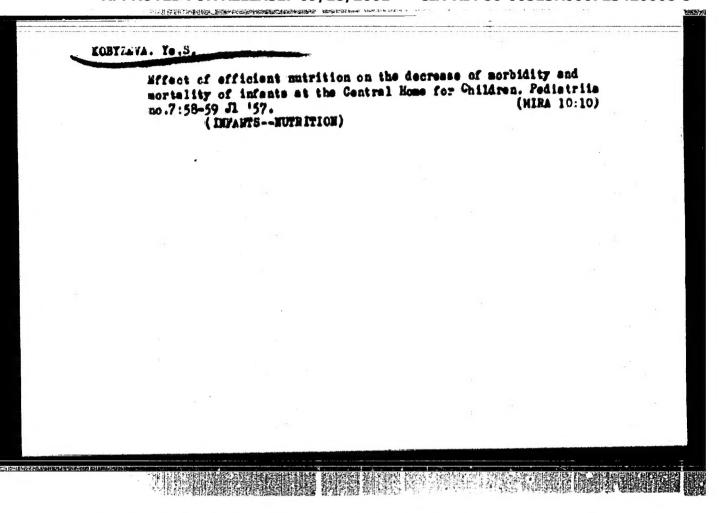
BRAYNINA, R.A.; MARGULIS, L.A.; KOVALEVSKAYA, I.L.; MITEREVA, V.G.; FERDINAND, Ya.M.; PUTRIN, N.G.; PAVLENKO, I.P.; TUPIKINA, V.A.; UDAVICHENKO, V.Ya.; KOBYZEVA, O.V.

Epidemiological effectiveness of dried alcoholic divaccine, enriched and nonenriched with Vi-antigens in school-age children and of Vi-antigens in preschool-age children in a typhoid fever outbreak. Zhur. aikrobiol., epid.i immun. 40 no.12:18-22 D 163. (MIRA 17:12)

1. Is Moskovskogo nauchno-issladovateliskogo instituta epidemiologii i mikrobiologii.

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CIA-RDP86-00513R000723420008-5



MYSHLYAYEVA, L.V.; KOBYZSKAYA, G.V.

Investigation of the reactions of the interaction of some silicones with water suspensions of cements and clinker minerals. Trudy (MIRA 15:6) (Silicon organic compounds) (Gement clinkers)